

Overview

Models

EH417AA

Introduction

The SAS3041E four-port, host bus adapter is ideal for storage connectivity of SAS and SATA drives in high performance workstations. The adapter doubles the performance of today's dual channel Ultra320 SCSI with aggregate bandwidth of 1.2GB/s. LSI Logic's SAS HBA's are ideal for today's data centers and leverages existing SCSI software investment and offers ease of migration. The serial interface allows for point-to-point connection offering higher performance, increased aggregate bandwidth, higher availability with dual ported drives, and enhanced reliability when compared to parallel SCSI.

The SAS interface provides universal interconnect with Serial ATA, while still offering logical SCSI compatibility along with the reliability, performance and manageability when using SAS drives. Common electrical and physical connection allows for the application to dictate the interface technology of choice for disk drives.

With PCI-E throughput of 1.0 GBps, these adapters capitalize on maximum system performance for those workstations needing it. It also utilizes Fusion-MPT architecture that allows for thinner drivers for better performance (up to 140,000 I/Os per sec) while adding value and flexibility at the firmware level.

Fusion-MPT architecture provides outstanding performance, binary compatibility of host software and significantly reduces software development time. With advanced architecture, SAS3041E adapter can be quickly adapted to respond to emerging I/O interfaces.

NCQ (Native Command Queuing) is not supported on this card at this time.

Key Features and Benefits

- 3Gb/s per port, 4 ports
- Connects to both SAS/SATA drives
- Wide Bus support with aggregate bandwidth of 2GB/s (full duplex)
- Low-profile form factor
- Fusion-MPT architecture featuring over 140,000 I/Os per second
- Connects up to 128 internal devices
- Supports major OSs

Compatibility

The 3041E SAS HBA is compatible with the HP xw6400 and xw4400 workstations. SATA NCQ functionality is not supported on this HBA at this time.

Service and Support

The 3041E SAS HBAs have a one-year limited warranty or the remainder of the warranty of the HP product in which they are installed. Technical support is available seven days a week, 24 hours a day by phone, as well as in online support forums. Certain restrictions and exclusions apply.

Technical Specifications

PCI Bus	PCI-Express x4 lanes		
PCI Modes	Bus Master DMA		
PCI data burst transfer rate	1.0 GBps (half duplex) 2.0 GBps (full duplex)		
SAS Bandwidths	Half Duplex		Full Duplex
	Single lane – 300 MBps		Single SAS Lane – 600 MBps
	Wide Port (2 lanes) – 600 MBps		Wide Port (2 lanes) –1200 MBps
	Wide Port (4 lanes) – 1200 MBps		Wide Port (4 lanes) – 2400 MBps
PCI Card Type	3.3 volt add-in card		
PCI Voltage	12 V ± 10%		
PCI Form Factor	6.6 x 2.731 in (16.76 x 6.94 cm) (Low-profile)		
PCI Power	7.5 Watts		
Bracket	Full height and Low-profile		
Certification Level	PCI-Express 1.0a		
IO Bus	Four 3Gbps SAS/SATA ports		
SAS Processor	LSISAS1064E		
Internal Connectors	Four- SATA x1 connectors		
External Connectors	None		
Max. Number of SCSI Devices	128		
LED Indicators	On-board activity and fault LEDs		
Integrated Mirroring	Integrated Mirroring option available		
Environments	Operating		Storage
	32° to 140° F (0° to 60° C)		-49° to +221° F (-45° to +105° C)
	5% to 90% non-condensing		5% to 90% non-condensing
MTBF	>200,000 hours		
Compliances	EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04);Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS 3548); Safety: EN60950		
Operating system support	Microsoft® Windows® XP Professional, XP Professional x64 Red Hat Linux 7.2, 7.3, WS3 and WS4		
Kit contents	Controller card, driver CD, LED cables, user documentation and warranty card.		

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